BY: 110/31.5.14

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.03/KC/CEMENT/2013-14

Date: 10.02.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. K. Channkeshavamurthy,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to Drain at 407 2nd A Main near Ayurvedic Clinic in Attur Ward No.03, BBMP, Bangalore.
REFERENCE	:	BBMP/AEE/YNSD/464/2013-14 Dated: 08.02.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	470 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.00 %	-

JEW-3

Note:

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬ.ಬ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-ಉತ್ತರ

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.03/KC/SAND/2013-14 : 10.02.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.

Agency : **Mr. K. Channkeshavamurthy,** Contractor, Bangalore.

Name of Work : Improvements to Drain at 407 2nd A Main near Ayurvedic Clinic in Attur Ward No.03, BBMP, Bangalore.

Reference : BBMP/AEE/YNSD/464/2013-14 Dated: 08.02.2014

Date of Testing : 10.02.2014

Material : Sand Total Wt. of Aggregates in gms 2000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	97	4.85	4.85	95.2	90-100
2.36	236	11.80	16.65	83.4	75-100
1.18	517	25.85	42.50	57.5	55-90
600 Micron	425	21.25	63.75	36.3	35-59
300 Micron	479	23.95	87.70	12.3	8-30
150 Micron	202	10.10	97.80	2.2	0-10

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Lab No.: CTCE/BBMP/W.No.03/KC/AGG/2013-14 : 10.02.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.

Agency : **Mr. K. Channkeshavamurthy,** Contractor, Bangalore.

Name of Work : Improvements to Drain at 407 2nd A Main near Ayurvedic Clinic in Attur Ward No.03, BBMP, Bangalore.

Reference : BBMP/AEE/YNSD/464/2013-14 Dated: 08.02.2014

Date of Testing : 10.02.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25500**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	998	3.91	3.91	96.09	95-100
20	15462	60.64	64.55	35.45	30-70
10	5986	23.47	88.02	11.98	10-35
4.75	2654	10.41	98.43	1.57	0-5

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾ
ಬ.ಜ.ಎಂ.ಪ. ಬೆಂಗಳೂರು-106

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.03/KC/CC Blocks/2013-14 17.02.2014

TEST REPORT ON CEMENT CONCRETE BLOCKS

Client : **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.

Agency : **Mr. K. Channkeshavamurthy,** Contractor, Bangalore.

Name of the Work : Improvements to Drain at 407 2nd A Main near Ayurvedic Clinic in Attur Ward No.03, BBMP, Bangalore.

Reference : BBMP/AEE/YNSD/464/2013-14 Dated: 08.02.2014

Size of Block : 400 mm x 200 mm x 200 mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 03

Sl.No.	Date of Sampling	Date of testing	Failure load (KN)	Compressive strength	Minimum required Compressive Strength
			kN	N/mm^2	N/mm^2
1	15.02.2014	17.02.2014	258.3	3.23	3.2
2	15.02.2014	17.02.2014	262.8	3.29	
3	15.02.2014	17.02.2014	259.4	3.24	

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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No: CTCE/BBMP/W.No.03/KC/CC Blocks/2013-14 17.02.2014

TEST REPORT ON CEMENT CONCRETE BLOCKS

Client : **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.

Agency : **Mr. K. Channkeshavamurthy,** Contractor, Bangalore.

Name of the Work : Improvements to Drain at 407 2nd A Main near Ayurvedic Clinic in Artur Ward No.03, BBMP, Bangalore.

Reference : BBMP/AEE/YNSD/464/2013-14 Dated: 08.02.2014

Size of Block : 400 mm x 100 mm x 200 mm

Cross Sectional Area : 40000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 03

Sl No.	Date of Sampling	Date of testing	Failure load (KN)	Compressive strength	Minimum required Average Compressive Strength
			kN	N/mm^2	N/mm^2
1	15.02.2014	17.02.2014	129.4	3.24	3.2
2	15.02.2014	17.02.2014	128.7	3.22	
3	15.02.2014	17.02.2014	130.5	3.26	

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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.03/KC/CUBE/2013-14

15.04.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
Agency	: **Mr. K. Channkeshavamurthy,** Contractor, Bangalore.
Name of the work	: Improvements to Drain at 407 2nd A Main near Ayrvedic Clinic in Attur Ward No.03, BBMP, Bangalore.
Reference	: BBMP/AEE/YNSD/464/2013-14 Dated: 08.02.2014
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.03.2014	15.04.2014	8.364	380.9	16.93
2	18.03.2014	15.04.2014	8.157	378.4	16.82
3	18.03.2014	15.04.2014	8.295	379.6	16.87

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